REPORT / RECOMMENDATION



To: Mayor and City Council Agenda Item #: VIII.C.

From: Ann Kattreh Action

Parks & Recreation Director

Date: February 18, 2014 Information □

Subject: Sports Dome, Outdoor Rink and Arena Improvements Budget Estimate Update and

Bid Authorization

Action Requested:

Provide project design direction on Sports Dome, outdoor rink and arena project based on increased project cost estimates. Based on project design direction, provide authorization for advertisement of bid package one for Sports Dome, outdoor rink and arena project.

Information / Background:

On October 14, 2013 the City Council directed staff to begin the design phase of the Sports Dome, outdoor refrigerated rink and arena improvements (Braemar project) at Braemar Arena and the Braemar athletic field. Staff has retained Cuningham Group architects, and RJM as construction manager. As design progressed, soil conditions evaluated and code compliance issues addressed, several factors have been identified which are expected to increase the project cost by approximately \$2 million. Please see attached RJM Construction Budget Summary.

Paul Kolias, RJM Construction, and Kathy Wallace, Cuningham Group, will be at the City Council meeting to answer questions. If the council is interested in cutting costs for the Braemar portion of the project, the elimination of the outdoor refrigerated rink would save approximately \$1.5 million. Since the east arena's R-22 refrigeration system needs to be replaced by 2020, it is important that the new ammonia system for the east arena be replaced as part of this project. The site of the outdoor rink could be prepped but the outdoor refrigeration, boards and roof could be postponed.

The Pamela Park renovation project is still in the design phase and cost estimates have not been obtained. Staff has identified a potential site improvement and cost saving proposal for Pamela Park. Staff will propose to slightly increase the size of the lighted artificial turf field, eliminating the need for the new sand peat field. This will significantly increase the amount of use for the artificial turf with just increasing the artificial turf field from approximately 225' x 380' to 250' x 380'. The location of the proposed "new" sand peat field is currently uneven and dangerous for athletics. Instead of adding a new sand peat field, this site could be graded, re-seeded and irrigated to provide a high quality multipurpose grass field space (similar to Highlands Park fields) for athletic and neighborhood use.

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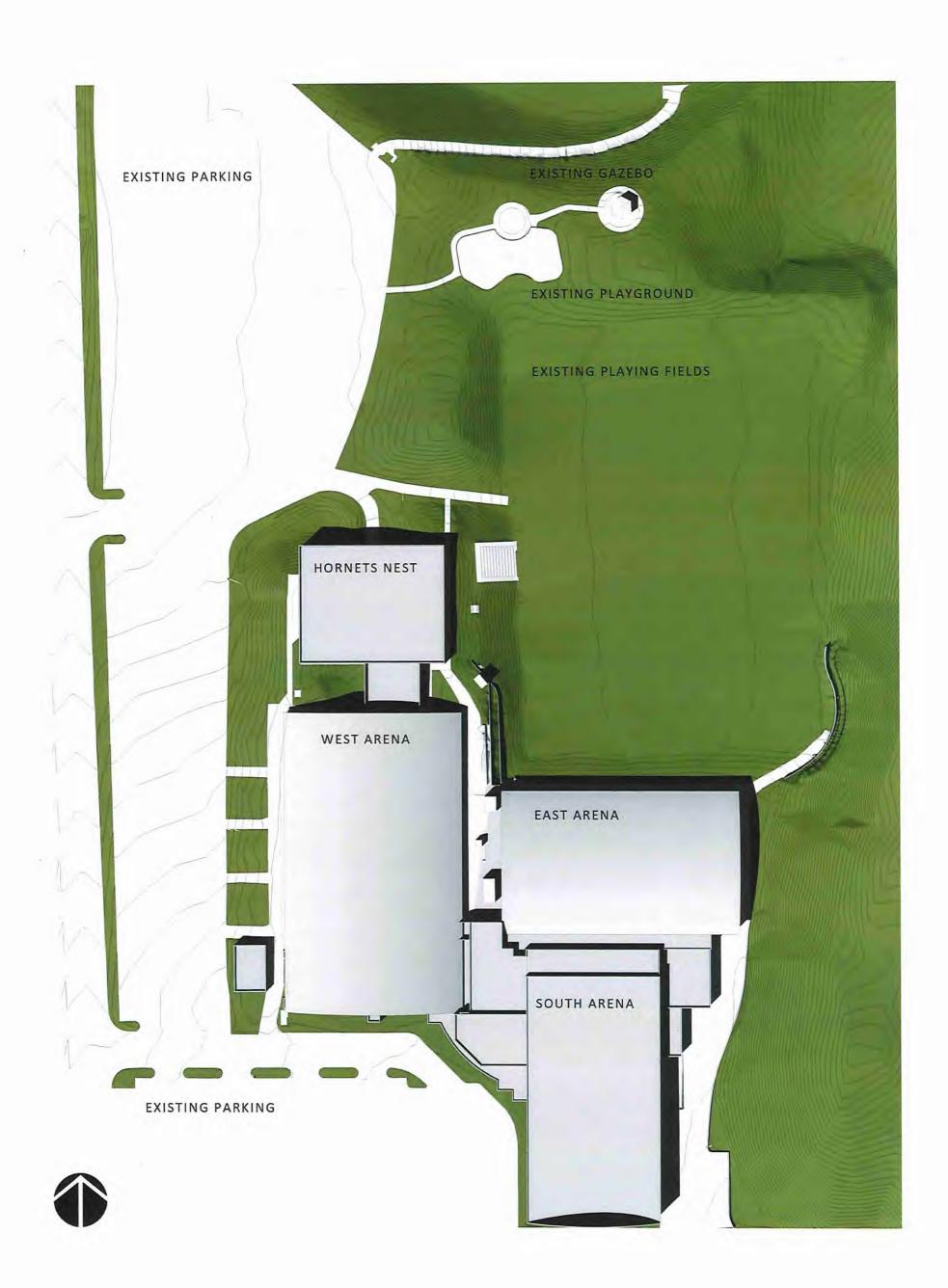
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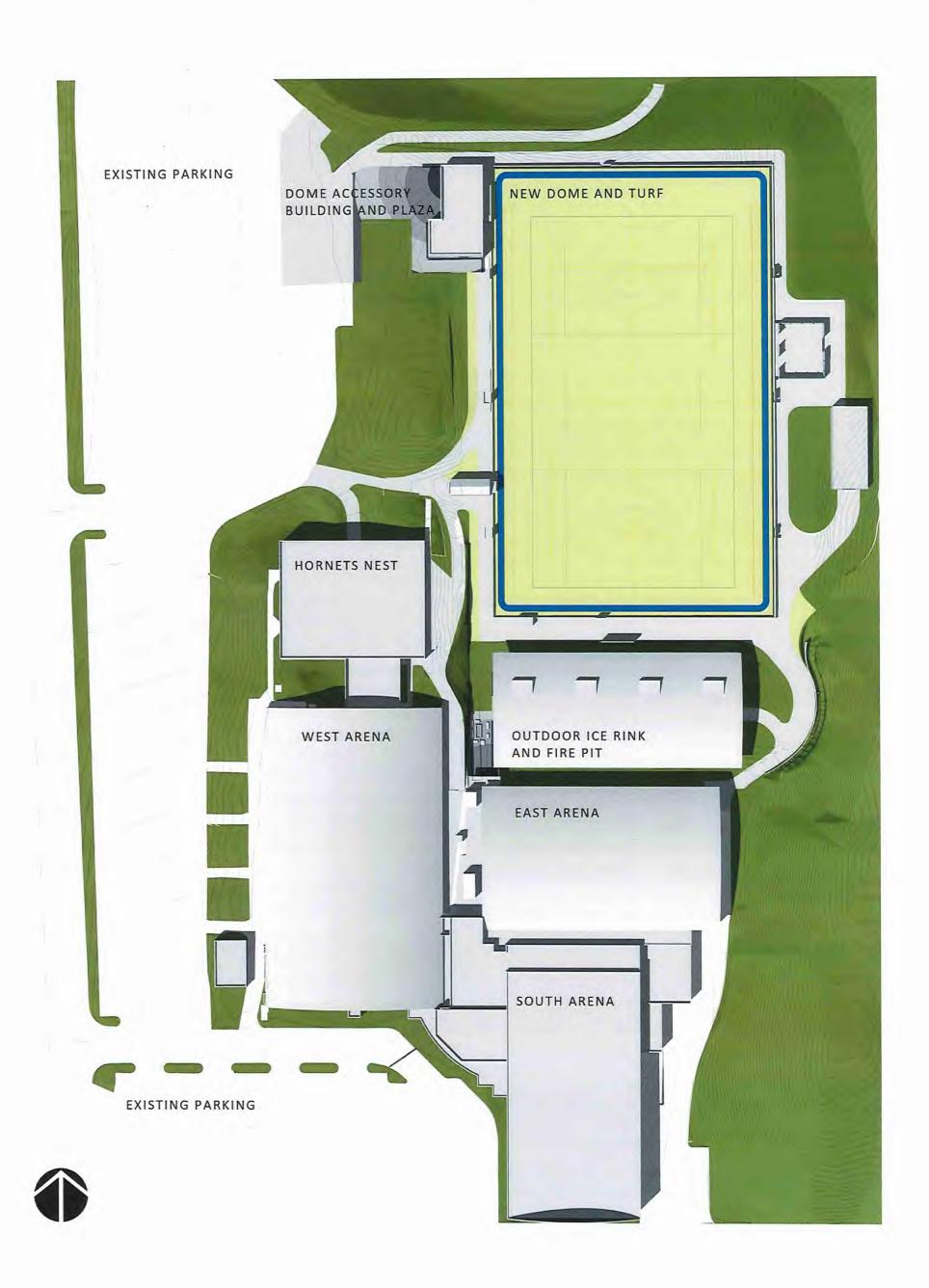
In order to keep the Braemar project on track for a November/December 2014 opening, staff requests that the council authorize bid package one for advertisement. Bid package one will contain items that have long lead times, particularly for manufacturing. Staff and consultants will adjust the scope of the project based on council's decision tonight regarding the increased budget estimate and project scope and design. Staff will continue to work with RJM on the construction schedule, but the additional site work at Braemar is expected to delay the project completion by approximately one month to December 5, 2014. The schedule will be tightened wherever possible to open the facilities as soon as possible.

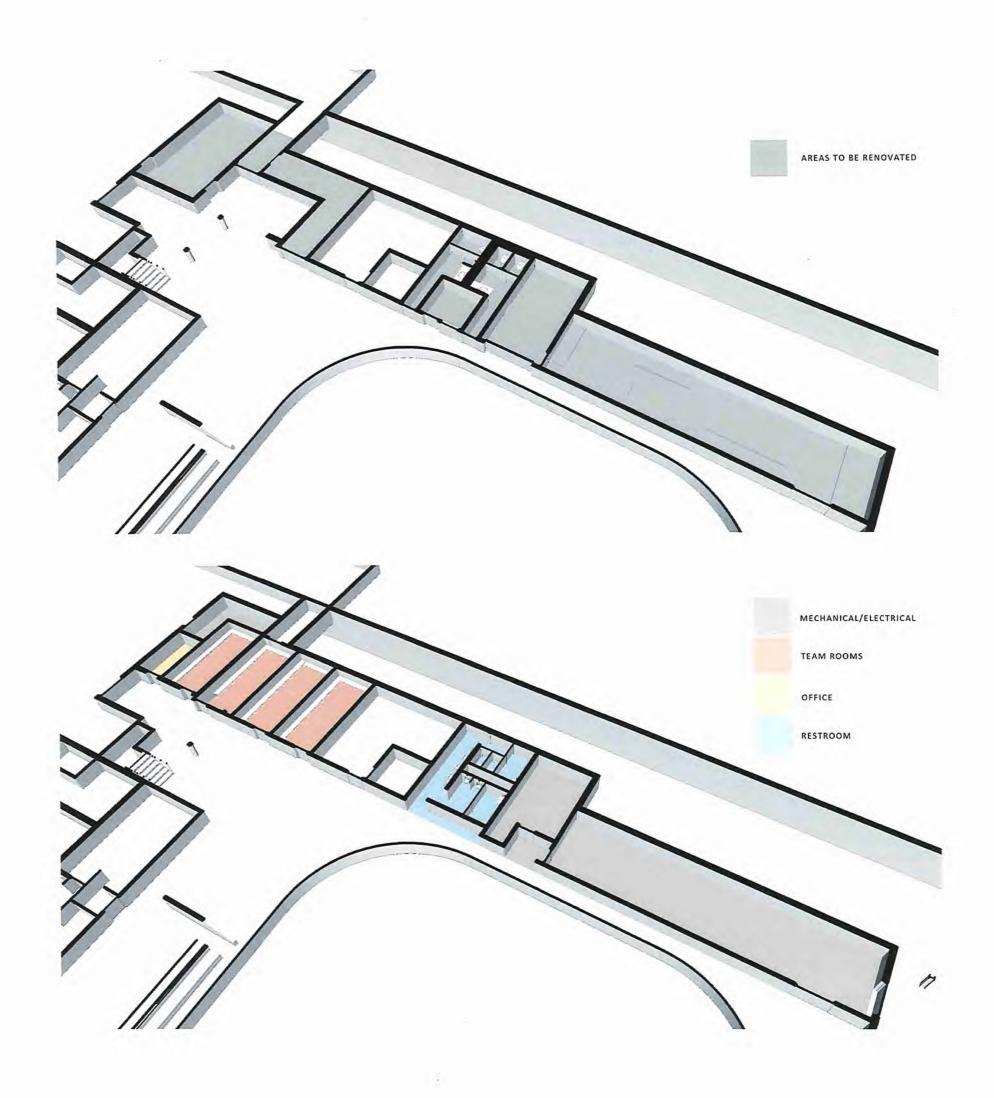
The City of Edina received a \$250,000 Hennepin Youth Sports Grant for the Sports Dome. This grant is not included in the project budget.

Attachments:

Braemar Site Diagram
Braemar Site Improvement Plan
Arena Renovation Plan
Accessory Building Rendering
East Arena Entry and Fire Pit Rendering
Outdoor Rink Rendering
Construction Budget Summary
Conceptual Estimate Summary
Detailed Construction Cost Breakdown
October 8, 2013 Project Estimate
Preliminary Construction Schedule
Updated Pamela Site Plan





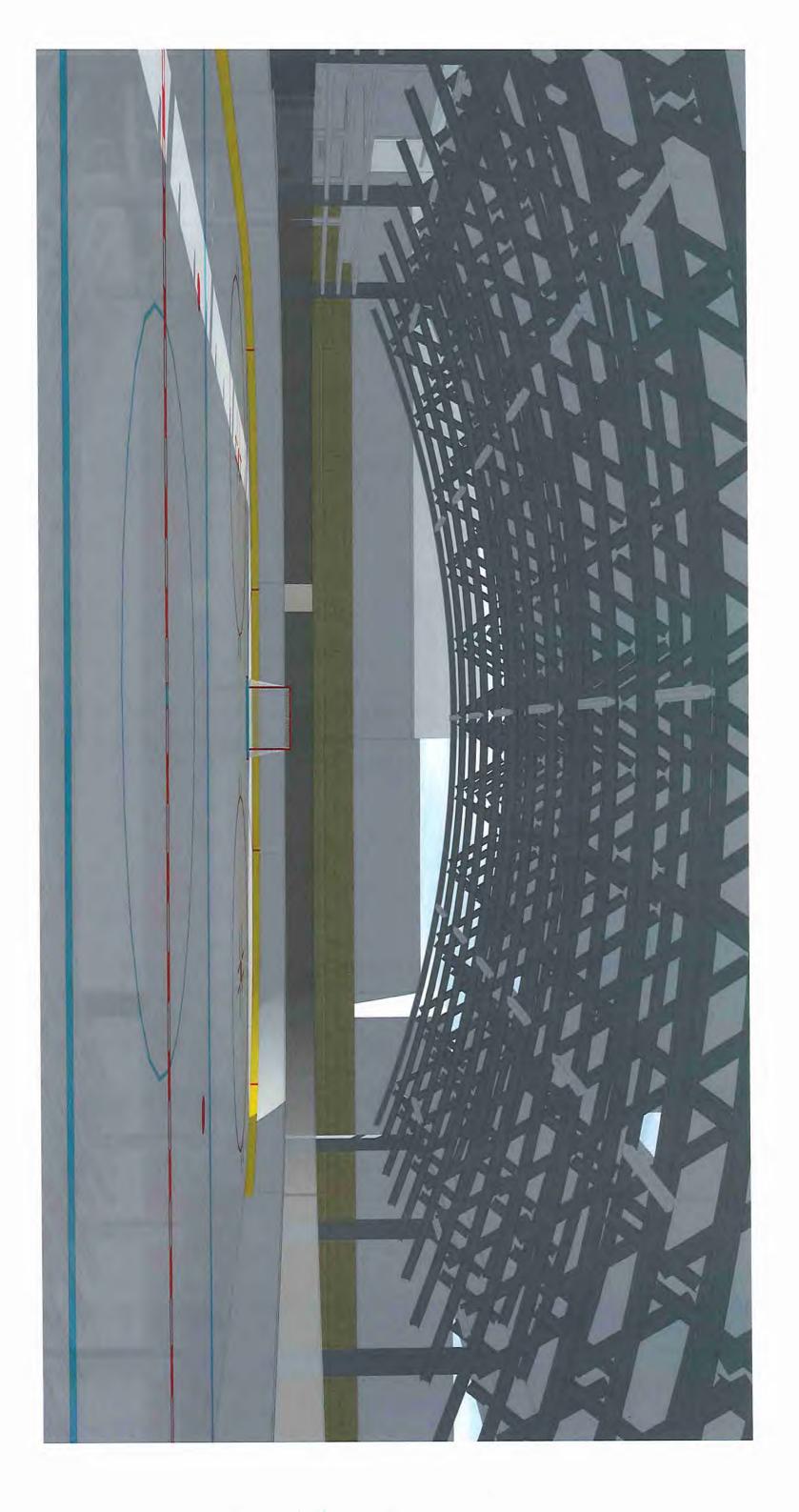












Construction Budget Summary



MINNEAPOLIS OFFICE

701 Washington Avenue North #600 Minneapolis, Minnesota 55401 952-837-8600

TO:

Ann Kattreh

Parks and Recreation Director

City of Edina

FROM:

Paul Kolias

DATE:

February 12, 2014

RE:

Edina Sports Dome Construction Budget Summary

This is a brief summary outlining the estimate changes to the Edina Sports Dome Project since the initial estimate dated 10-8-13 (attached). Since this estimate we have received complete site survey, soil boring logs and preliminary soils report, and have had discussions and meetings with the City Building Department. These documents, discussions and meetings have impacted the initial estimate.

Also attached is our current design development estimate and detailed construction cost breakdown dated 2-12-14. These estimates are based on development of the current facility size, components and location on site. The values that have been established are conceptual in nature, providing anticipated magnitude of costs based on design development plans prepared by Cuningham Architects and their consultants.

At this time the project is over the initial estimate/budget dated 10-8-13 in the amount of \$2,066,817 (total project estimate). An exact comparison of the two estimates is difficult because the recent estimate is more detailed. However, there have been significant cost increases in two of the major project components: East Arena Ice Equipment and Site Work.

The largest impact to the project has been the increase in site work. Site work cost increases are due to the following:

- · required soil correction at the existing soccer field
- · additional access roads around the dome, requiring additional retaining walls
- · expanded area of site work for increased separation of structures
- raised grades to accommodate proper ADA access to the East Arena and Sports Dome Accessory Building
- · partial renovation of existing west parking lot to accommodate access

These items contribute to the \$1,746,507 construction cost difference in Site Work between the initial estimate and the current one; see Site Work column on the Detailed Construction Cost Breakdown. The soil corrections have also impacted the schedule; due to the need to excavate and replace soils the project schedule is extended by four weeks. Final completion of the project is set for December 5, 2014.

The East Arena Ice Equipment component includes the work to replace the refrigeration equipment for the existing East Arena rink (for ammonia refrigerant), and enlarge it to handle the outdoor ice sheet. The cost increases are due to un-anticipated equipment material cost increases and the need to relocate

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and upgrade the existing electric service. The relocation is needed in order to allow room for the new ice equipment within the existing mechanical equipment room. The equipment cost increase and needed electrical service (and space) improvements total approximately \$650,293 (construction cost).

The other project components are <u>under</u> the initial conceptual estimate set, as a group, by \$649,255 (construction cost), but do include some increases in scope. First, the projected dome cost includes Tedlar coating for longevity and an additional liner for energy efficiency. Second, the Outdoor Ice Sheet roof canopy is required to be non-combustible, so costs for a metal roof and heavier structural steel is included.

Owner costs: The total increase between the initial estimate and the current estimate also includes \$319,272 in Owner costs, fees and non-construction contingencies, which mostly increase in proportion to expanded scope/cost. The Owner Contingency line-item (4% of estimated construction cost) is to offset any increase in Owner soft costs that come up through the life of the project. The Design Contingency line-item is 4% of estimated construction cost, typical for this phase of design, and is intended to absorb design changes not estimated that come up during final development of documents. Both of these are not fixed and could potentially be reduced. The third contingency, Construction contingency (for hidden conditions or other unexpected costs during the construction process) is addressed in the Total Construction Cost line item.

Soil Corrections: A brief explanation of the required soil correction: the soil information obtained in November indicates a significant amount of buried debris in various areas under the soccer field. Several test pits were dug to determine the extent of the debris and condition of surrounding soils. Braun Intertec reported that soils in which the debris was found are not contaminated and the debris found was found to have been placed in a controlled manner. With these findings Braun Intertec recommended two options to deal with the buried debris: remove all debris from the site at a cost of \$250,000 or sub-cut the site 5', re-compact the subgrade soils and place existing soils back in-place at a cost \$112,000. This sub-cut and placing of existing soils creates a 'bridge' over the debris and allows the use of conventional spread footings for the foundation systems being used on the project. The 5' sub-cut approach is included in the current estimate.

Scope-Reduction Option: One option to bring project closer to budget would be delete the portion of the work associated with the Outdoor Ice Sheet, specifically the East Arena Renovation (team rooms, toilets) and Outdoor Ice Sheet and roof. The value of the two components is \$1,589,651. This approach would still include the ammonia refrigeration infrastructure and the soil corrections to allow the outdoor ice sheet to be installed at a later date. Should this option be considered and constructed at a later date, the cost would be expected to increase, both for escalation (at this time cost escalation is 1% per month for the remainder of 2014), and due to greater constraints for construction.

By considering the option above the Total Project Estimate amount would adjust down to \$10,855,766, approximately \$477,000 above the conceptual estimate dated 10-8-13 of \$10,378,600.

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Conceptual Estimate Summary



CONCEPTUAL ESTIMATE SUMMARY

PROJECT: February 12, 2014
PROJECT: Edina Sports Dome
ARCHITECT: Cunnigham Group
DRAWING DATE: December 16, 2013

DESCRIPTION	Notes	Base Estimate	\$/sf 230,000
Construction Costs		100.000	
Demolition		\$28,000	\$0.12
Concrete Masonry		\$444,431 \$284,568	\$1.93 \$1.24
Structural Steel	barrel vault roof	\$475,759	\$2.07
Rough Carpentry	5870 790 100	\$155,132	\$0.67
Finish Carpentry/Millwork		\$21,117	\$0.09
Metal Panel & Metal Roof		\$208,950	\$0.91
Roofing		\$77,894	\$0.34
Joint Sealants		\$5,500	\$0.02
Doors, Frames, Hardware	-	\$20,146	\$0.09
Overhead Doors		\$22,500	\$0.10
Aluminum Entrances & Storefront Gypsum Drywall		\$28,285 \$9,023	\$0.12 \$0.04
Tile		\$19,280	\$0.08
Acoustical Ceilings		\$0	\$0.00
Rubber Flooring		\$13,926	\$0.06
Painting		\$74,593	\$0.32
Miscellaneaous Specialties		\$17,924	\$0.08
Dome	tedlar coating, bubble insul, LED lighting	\$1,481,927	\$6.44
Turf	FieldTurf XTHD-50 slit film 2"	\$380,220	\$1.65
Ice Rink Refrigeration / Dasher Boar	temp chiller	\$1,517,250	\$6.60
Fire Protection		\$5,794	\$0.03
Plumbing		\$99,900	\$0.43
HVAC	alle fields a sedient benefit	\$42,500	\$0.18
Electrical	site lighting, radiant heat at players benches	\$1,202,000 \$1,436,379	\$5.23 \$6.25
Earthwork Parking Lot	soil correction 5' sub-cut \$112,000	\$57,710	\$0.25
Access Roads		\$162,171	\$0.71
Site Concrete		\$115,000	\$0.50
Fire Pit		\$52,000	\$0.23
Retaining Walls '	5	\$397,320	\$1.73
Landscaping & Irrigation		\$75,000	\$0.33
Site Utilities		\$188,294	\$0.82
Site Fence		\$28,950	\$0.13
Final Cleaning		\$5,000	\$0.02
General Conditions		\$387,932	\$1.69
General Liability Insurance		\$95,424	\$0.41
Builders Risk Insurance Building Permit		\$4,626 \$96,761	\$0.02 \$0.42
Bond		\$0,701	\$0.00
Subtotal Construction Costs		\$9,739,186	\$42.34
Contingency		\$486,959	\$2.12
Contractors Fee		\$0	\$0.00
Total Construction Estimate		\$10,226,145	\$44.46
Owner Costs			
CM Fee	2.85%	\$291,445	\$1.27
Soil Borings	Allowance	\$15,000	\$0.07
Dome FFE	Allowance	\$100,000	\$0.43
Building FFE	Allowance	\$20,000	\$0.09
Technology	Allowance	\$100,000	\$0.43
Utility Relocation	Allowance	\$100,000	\$0.43
SAC/WAC	Allowance	\$15,000	\$0.07 \$0.01
Watershed	Allowance	\$3,000 \$644,445	\$2.80
Subtotal,Owner Costs		\$517,113	, 42.00
Design Fees Arch. Design Fees	7,40%	\$756,735	\$3.29
Subtotal Design Fees	7.40%	\$756,735	\$3.29
Contingency			
Owner Contingency	4%	\$409,046	\$1.78
Design Contingency	4%	\$409,046	\$1.78
Subtotal Contingency		\$818,092	\$3.56
Total Project Estimate		\$12,445,416	\$54.11





Detailed Construction Cost Breakdown

TRUCTION	Accessory Building	Dome & Support Bldgs	East Arena Interior Renovation	Outdoor Ice Sheet	East Arena Ice Equipment	Site Work	
Description							
Alternates							
Demolition	\$0	\$0	\$8,000	\$0	\$20,000	\$0	\$2
Concrete	\$24,585		\$3,900	\$100,000	\$12,815	\$0	\$44
Masonry	\$195,618		\$20,000	\$0	\$11,290	\$0	\$28-
Structural Steel	\$31,044		\$13,900	\$406,850	\$0	\$0	\$47
Rough Carpentry	\$2,295		\$0	\$56,605	\$0	\$0	\$15
Inish Carpentry/Millwork	\$6,334		\$14,783	\$0	\$0	\$0	\$2.
Metal Panel & Metal Roof	\$0		\$0	\$208,950	\$0	\$0	\$200
Roofing	\$43,979		\$0	\$0	\$0	\$0	\$7.
oint Sealants	\$2,000	\$1,500	\$1,000	\$1,000	\$0	\$0	\$!
Doors, Frames, Hardware	\$11,295		\$5,690	\$0	\$3,161	\$0	\$20
Overhead Doors	\$0		\$0	\$0	\$0	\$0	\$27
Numinum Entrances & Storefront	\$28,285	\$0	\$0	\$0	\$0	\$0	\$28
	\$9,023	\$0	\$0	\$0	\$0	\$0	\$9
Sypsum Drywall		\$0	\$7,427	\$0	\$0	\$0	\$19
Tile	\$11,853			\$0	\$0	\$0	31.
Acoustical Cellings	\$0		\$0				***
Rubber Flooring	\$0		\$13,926	\$0	\$0	\$0	\$13
Painting	\$11,271	\$0	\$11,084	\$52,238	\$0	\$0	\$74
discellaneaous Specialties	\$10,702	\$0	\$7,222	\$0	\$0	\$0	\$17
Dome	\$0	\$1,481,927	\$0	\$0	\$0	\$0	\$1,48
Turf	\$0	\$380,220	\$0	\$0	\$0	\$0	\$380
ce Rink Refrigeration / Dasher Boards	\$0	\$0	\$0	\$217,250	\$1,300,000	. \$0	\$1,517
ire Protection	\$3,294	\$0	\$2,500	\$0	\$0	\$0	\$
Plumbing	\$75,900	\$0	\$24,000	\$0	\$0	\$0	\$99
IVAC	\$15,000	\$0	\$27,500	\$0	\$0	\$0	\$47
Electrical	\$60,000	\$737,000	\$50,000	\$130,000	\$225,000	\$0	\$1,20
arthwork	\$50,000	\$563,327	\$0	\$72,730	\$0	\$750,322	\$1,436
Parking Lot	\$0	\$0	\$0	\$0	\$0	\$57,710	\$57
Access Roads	\$0	\$0	\$0	\$0	\$0	\$162,171	\$162
ite Concrete	\$0	\$0	\$0	\$0	\$0	\$115,000	\$115
Fire Pit	\$0	\$0	\$0	\$0	\$0	\$52,000	\$57
Retaining Walls	. \$0	\$0	\$0	\$0	\$0	\$397,320	\$397
	\$0	\$75,000	\$0	\$0	\$0	\$0	\$75
andscaping & Irrigation			\$0	\$0	\$0	\$0	\$188
ite Utilities	\$0	\$188,294		\$0	30	\$28,950	\$28
Site Fence	\$0	\$0	\$0				
inal Cleaning	\$2,500	\$0	\$2,500	\$0	\$0	\$0	\$5
Seneral Conditions	\$25,213	\$186,504	\$3,833	\$26,471	\$79,657	\$66,254	\$387
Seneral Liability Insurance	\$6,202	\$47,572	\$2,173	\$6,661	\$16,519	\$16,297	\$95
Builders Risk Insurance	\$301	\$2,015	\$105	\$614	\$801	\$790	\$4
Bullding Permit	\$6,289	\$42,154	\$2,203	\$12,838	\$16,751	\$16,526	\$96
bnd				19			
Subtotal	\$632,982	\$4,242,917	\$221,746	\$1,292,207	\$1,685,993	\$1,663,340	\$9,739,
Contingency	\$31,649	\$212,146	\$11,087	\$64,610	\$84,300	\$83,167	\$486
Contractors Fee	\$0	\$0	\$0	\$0	\$0	\$0	
Total Construction Cost	\$664,632	\$4,455,062	\$232,833	\$1,356,818	\$1,770,293	\$1,746,507	\$10,226,
otal Conceptual Const Cost	\$ 625,000		\$ 495,500	\$ 1,755,100	\$ 1,120,000	\$	\$ 8,478,
lifference	\$ (39,632)	5 27,938	\$ 262,667	\$ 398,282	\$ (650,293)	\$ (1,746,507)	\$ (1,74)
Owner Costs							
M Fee		2.85%					\$29
oil Borings		Allowance					\$1
ome FFE		Allowance					\$10
uilding FFE		Allowance					\$2
echnology		Allowance					\$10
							\$10
Hilly Relocation		Allowance					740
		Allowance					\$1
AC/WAC		Allowance					
AC/WAC Vatershed							\$
AC/WAC Vatershed Subtotal Owner Costs		Allowance					\$
Idility Relocation AC/WAC Vatershed Fubtotal Owner Costs Design Fees		Allowance Allowance					\$1 \$ \$644,
AC/WAC Valershed Fubtotal Owner Costs Design Fees rch. Design Fees		Allowance					\$ \$644 ,
AC/WAC Valershed Fubtotal Owner Costs Design Fees rch. Design Fees		Allowance Allowance					\$ \$644 ,
AC/WAC Valershed Subtotal Owner Costs Design Fees Irch, Design Fees Subtotal Design Fees Contingency		Allowance Allowance 7.40%					\$ \$644, \$644, \$756
AC/WAC Valershed Subtotal Owner Costs Design Fees rch. Design Fees Subtotal Design Fees Subtotal Design Fees Sontingency Water Contingency		Allowance Allowance 7.40%					\$ \$644; \$644; \$756 \$756
AC/WAC Altershed Fubtotal Owner Costs Design Fees rch. Design Fees Fubtotal Design Fees Fontingency wher Contingency esign Contingency		Allowance Allowance 7.40%					\$ \$644; \$644; \$756 \$756 \$400 \$400
AC/WAC Valershed Subtotal Owner Costs Design Fees rch, Design Fees Subtotal Design Fees Contingency		Allowance Allowance 7.40%					\$





MINNEAPOLIS / PHOENIX / DENVER

October 8, 2013 Project Estimate

October 8, 2013

Edina Sports Dome, Outdoor Ice Sheet and Interior **Renovation of East Arena**

Dome Layout (250' x 400' Dome)				
	Quantities		Cost/Unit	Total
Dome foundations	1,300	LF	\$250	\$324,000
Dome (250' x 400')	100,000	SF	\$13.50	\$1,350,000
Synthetic turf field (Includes soil prep)	1	LS	\$926,000	\$926,000
Site hardscapes	1	LS	\$120,000	\$120,000
Mechanical/Electrical	100,000	SF	\$4	\$400,000
Landscaping	1	LS	\$40,000	\$40,000
Retaining walls	1	LS	\$80,000	\$80,000
Utilities	1	LS	\$100,000	\$100,000
Earthwork	1	LS	\$650,000	\$650,000
Accessory Building	2,500	SF	\$250	\$625,000
Storage and maintenance buildings	2,500	SF	. \$100	\$250,000
Construction Contingency	5%			\$243,000
			Total	\$5,108,000
Outdoor Ice Sheet				
	Quantities		Cost/Unit	Total
Earthwork ·	40,000	SF	\$5	\$200,000
Retaining walls	170	LF	\$650	\$110,500
Utilities	40,000	SF	\$4	\$160,000
Demo existing East Rink refrigeration system	1	LS	\$20,000	\$20,000
New indirect ammonia refrigeration system	1	LS	\$725,000	\$725,000
Concrete footing around rink	1	LS	\$22,000.	\$22,000
Concrete paving around rink	6,600	SF	\$5	\$33,000
Outdoor concrete rink floor with subfloor heating				
system	1	LS	\$375,000	\$375,000
Exterior dasher boards with full boxes and glass	1	LS	\$160,000	\$160,000
Roof structure w/ fabric roof	24,200	SF	\$28	\$677,600
Covered walk-way w/ fabric roof	2,500	SF	\$80	\$200,000
Walk off mats	2,500	SF	\$22	\$55,000
Construction Contingency	5%			\$137,000
			Total	\$2,875,100
Interior Renovation of East Arena				
Interior Renovation of East Arena	Quantities			
Demolition .	2,500	SF	\$25.	\$62,500
Locker/Changing Rooms (2) - renovation	1,800	SF	\$60	\$108,000
ADA compliant restrooms (2)	2	EA	\$40,000	\$80,000
Structural reinforcing	1	LS	\$50,000	\$50,000
Equipment room renovation	1	LS	\$150,000	\$150,000
Walk off mats	1,000	SF	\$22	\$22,000
Construction Contingency	5%	٠.	4	\$23,000
Constituction Contingency	5,0			420,000

701 Washington Avenue North #600 Minneapolls, Minnesota 55401

952-837-8600 RJMConstruction.com

Edina Sports Dome, Outdoor Ice Sheet and Interior Renovation of East Arena

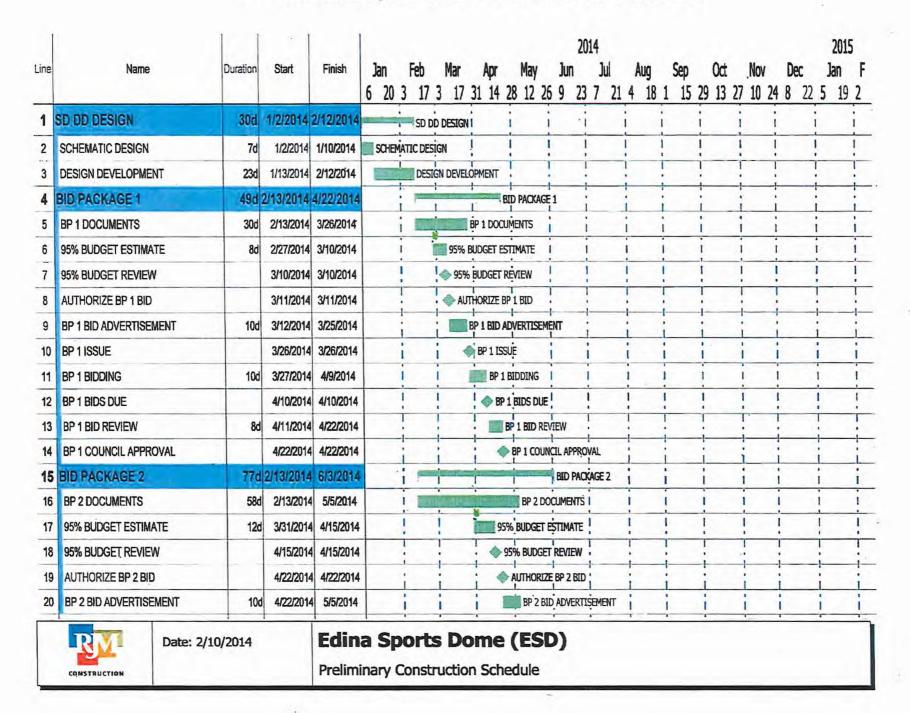
Owner Costs

	Quantities		Cost/Unit	Total
A/E Fees	7.4%	LS		\$627,000
CM Fee	2.85%	LS		\$242,000
Soil Borings (Allowance)	1	LS	\$15,000	\$15,000
Dome FFE (Allowance)	1	LS	\$100,000	\$100,000
Building FFE (Allowance)	1	LS	\$20,000	\$20,000
Technology (Allowance)	1	LS	\$100,000	\$100,000
Utility Relocation (Allowance)	1	LS	\$100,000	\$100,000
SAC/WAC (Allowance)	1	LS	\$15,000	\$15,000
Watershed (Allowance)	1	LS	\$3,000	\$3,000
Owner Contingency	4%			\$339,000
Design Contingency	4%			\$339,000
			Total	\$1,900,000

Total \$10,378,600

The project estimates provided are based on conceptual development of facility size, components and location on site. The values that have been established are conceptual in nature, providing anticipated magnitude of costs based on historical construction cost information from previous facilities. Upon final design, bids will be received for all areas of work that will at that time provide more detailed and accurate construction costs.

Preliminary Construction Schedule



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ine	Name	Duration	Start	Finish	Jan	Feb	Mar	Apr	Ma	у	Jun		Jul		Aug		Sep	()ct		Nov		Dec	Ja	n	F
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25	BP 2 COUNCIL APPROVAL		6/3/2014	6/3/2014			-			4	BP 2	COUN	VCIL A	PPRO	VAL	:		1				-		1		
26	CONSTRUCTION	154d	5/1/2014	12/5/2014			1				(Fig. 1)			-				12	- City	1		1	ONSTR	RUCTIC	N i	
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33	ACCESSORY BLDG	80d	6/13/2014	10/3/2014		1		-							(-			A	CCES!	SORY	BLD	G		1		
34	TEMP ICE EQUIPMENT	45d	6/30/2014	9/1/2014		i	i	i				1	e in		L)	T	EMP I	Œ EQI	ЛРМ	ENT		1		i		
35	EAST ARENA ICE EQUIPMENT	55d	7/7/2014	9/19/2014		i	i	i	1		i	i					18	EAST A	REN	A IC	E EQI	ЛРМ Е	NT	i		
36	EAST ARENA INTERIOR RENOVATION	55d	7/7/2014	9/19/2014		1		1	1			-			141			EAST /	AREN	A IN	TERIC	R RE	TAVOV	ION		
37	PARKING LOT ASPHALT TRAILS	19d	9/23/2014	10/17/2014		!	1	i	i		i	1		i		1	1	-	P	ARKI	NG L	OT AS	PHALT	TRAIL	5	
38	SUBSTANTIAL COMPLETION		11/17/2014	11/17/2014		1	1	1	1		!	!		1		:		I		1	-	SUBS	TANTI	AL CON	PLETI	ON
39	FINAL COMPLETION		12/5/2014	12/5/2014			-					-		-		-				1		4	FINA	L COM	PLETIC	NC

CONSTRUCTION

Date: 2/10/2014

Edina Sports Dome (ESD)

Preliminary Construction Schedule



Updated Pamela Site Plan